

Alignment of Nulake Year 12 Mathematics Workbook to Qatar Grade 12F Standards

Overall features:

- Differentiated questions at 3 levels – Achievement/Merit/Excellence supports differentiated teaching.
- There are good notes and examples on use of graphic calculators –useful for teachers who have not had pd
- Advice on customizing the workbook for individual learning styles is included.
- Hints on how to study and how to use the book are included for teachers.
- The book is cheap – should be QR60 or thereabouts so it is feasible that every student have one as their basic workbook.
- The language is appropriate.
- The authors are open to writing specific sections to meet local conditions if numbers are guaranteed – e.g. a section on vectors could be included if requested.
- Highlighted notes and worked examples are well set out.
- Whereas many schools seem to send textbooks home for the students to use for homework (and they remain there unused for the year) and at the same time many students do not bring their workbooks to class, this combines the 2 books in one.

Alignment to Grade 12F Course

Nulake Chapter	12F Unit	Standards covered (from the unit)	Standards omitted	Notes
Chapter 1.0 Algebra	Aspects of 12F-01	12F 3.1, 4.1		
Chapter 2.0 Graphs	12F-04 Aspects of 12F-11	12F 1.3, 1.5, 1.14 12F 5.1, 5.2 (in part) 12F 5.8 (growth and decay only)	5.3, 5.4	Trig functions are covered in Chapter 9.0
Chapter 3.0 Calculus				
Chapter 4.0 Coordinate Geometry				
Chapter 5.0 Statistics	12F-03	12F 1.1, 1.2, 1.4, 1.7, 1.10, 1.11, 1.12, 1.14 12F 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 12F 14.2	14.1 is covered in Nulake Year 13 Statistics and Modeling Workbook Chapter 1.0	

Chapter 6.0 Probability	Aspects of 12F-08	12F 11.1, 11.2, 11.3, 11.8, 13.1		12F 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 14.1 are covered in Nulake Year 13 Statistics and Modeling Workbook Chapter 3.0
Chapter 7.0 Sequences	Aspects of 12F-01	12F 4.2		
Chapter 8.0 Practical Trigonometry				
Chapter 9.0 Trigonometric Equations		12F 9.7 in part		
			12F-02	This is largely covered in Nulake Year 11 Workbook Chapter 4.0
			12F-05	Covered in part in Nulake Year 11 Workbook Chapter 4.0
			12F-06	
			12F-07	This is covered in Nulake Year 11 Workbook Chapter 3.0
			12F-09	12F 9.1 is covered for trig graphs in Chapter 9.0, and for other graphs in Chapter 2.0
			12F-10	
			12F-11	This is spread between Chapter 2.0 and covered extensively in Nulake Year 13 Statistics and Modeling Workbook Chapter 7.0

